NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED
MAR 14 1985
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-7-85
Company: El Paso Natural Gas				Connection:
Pool: Basin			Formation: Dakota	Unit:
Completion Date: 3-7-85	Total Depth: 7772		Plug Back TD: 7763	Elevation: 6563 GR
Farm or Lease Name: San Juan 29-7 U.				
Csg. Size: 4.500	Wt.: 10.5	d: 4.052	Set At: 7772	Perforations: From 7554 To 7759
Well No.: 31E				
Tbg. Size: 1.900	Wt.: 2.9	d: 1.610	Set At: 7739	Perforations: From To
Unit: A	Sec.: 32	Twp.: 29	Rge.: 07	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None	County: Rio Arriba
Producing Thru: CSG	Reservoir Temp. °F: e	Mean Annual Temp. °F:	Baro. Press. – P_a: 12	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						2404		2409		7 days
1.		.750			64	574		291		3 hrs.
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		303	.9962	.9258	1.036	3580
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 2421 P_c^2 5861241

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		586	343396	5517845
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{5861241}{5517845}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0463$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3746$

Absolute Open Flow 3746 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Gas vented during test 656 MCF
Produced a light mist of water throughout test

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Norman Waggoner	Ed Mabe	kld